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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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cccacattc cattttaat atatactgtg ctttaccat attataatat gttttaaatt 180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240

tttgaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300

caaaatttgt gattttctaa atacttctg gctgcaggga agaaaccacg tcccaggcga 360
45 agtcctacct aatttgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

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438

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15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180

 aattcccaa accaatttc aaaaggnaaa ccaacnttc caaaatggg aaagg 235

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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtg gggggaacca atttaagggg ggggccccg 240

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15

ctgtacttga actctaaac tgttgagaa actcagtgt taccccaaca gattcattc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

20

attccttggg cctaggaacc ctatcaccc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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 15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180
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 ggaagaattg tatgtgggag ttttaatgg tctcatttca ttggctataa ctcaattaca 180
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
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ggattaatta gacagcaaga cgcttgccgc ccctttggcg cgaacgaacn ncgaaaagga 420
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 acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc 120
 45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattctc 240
 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc ctccgggcca aaccgaacct caggtcanac ttccaagaaa 360
 agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttctncccc 180
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5 actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt 180

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 15 ctacagactgc aaantgtnat nctgncnnan nntgnngact gtcengncng atttnnngcn 120
 tgnataacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc 180
 cantnnnctg gggncccacn nnnngngaact gagagtggat cttgtgtacc tgacnnacca 240
 20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300
 ccngnctatc tactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360
 25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420
 aggttacenc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
 nctntncnt atagcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt 540
 30 tgntagatga nnnngtgcgc ncccttgngg ctnacaaatt ccancacctt tgggtggcngc 600
 agccnttaag ancactnttt ttgggttgcg ctnttgatg aattacnaat agnntgtttt 660
 35 gttncaggc ccttctgcna aatatgaana aaagngcnct tagcttttg ngggaactgn 720
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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag 100

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatagc tgggtgctcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aacct 515

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<211> 176

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 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120
 40 agcctgcct cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

<210> 56
 <211> 317
 45 <212> DNA
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 <223> n is a, c, g, or t

<400> 56
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 10 atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
 ggatttgggg tttagaggta caattgcctt tttatggta gagaaaggc ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtag atgctggcag 300
 acattgttat tgccatt 317
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<210> 57
 <211> 209
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 25 <213> Human

<400> 57
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 30 ctggactgga cactgtatac ccacatgcaa gatgaagtg gcccttaca tctatacgc 120
 aggagaattg cgtcatttaa agcctgttga cgctttctc ccgagacga atggaaagat 180
 taattgggag tgggggctga aacaattcg 209
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<210> 58
 <211> 262
 <212> DNA
 40 <213> Human

<400> 58
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 45 acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac 240

5 agagcgagac tccatctcta at 262

<210> 59

<211> 430

10 <212> DNA

<213> Human

<400> 59

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15 aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc ttggccctt 120

cccgggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatactta 180

20 aaccggccgg ggttttata caaactggga acccactttt gaaaaattt ggcctttga 240

tctgggatgg gaatatgagt ttatatcat ttcttttct tttgggcaa aggcccgtt 300

aagtattccc cccggggggg ctttacaaa aagggcgggt taaaagctt ttgggcccc 360

25 ctagggaatt gtttaacac ctaaaacc ctgcttcct taaagggcg ttcttaatt 420

tgggggcggc 430

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<211> 350
<212> DNA
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<400> 60

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40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180

tgattccgaa tcaccacag acagctcgat caccatacgt atcacccaac atatatact 240

45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagtgt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaacctgtg tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaa 300

45 ttgttaaaa ttgatattt gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

ctttaatccc agcacttagg aggagagggc aggggtggatt tctgaatttg agggcaggct 420

agtctacaga gcaagttcca ggtagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac 540

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cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgccc 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

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30 <211> 309

<212> DNA

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tatattcaa atgtcttgc aacagtgggt acttgcctc atccttagct atacgtctcg 180

40 aggacattg ttctctatg ccccgctacg cttggccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

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 5 <213> Human

 <400> 65
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 10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

 <210> 66
 20 <211> 142
 <212> DNA
 <213> Human

 <400> 66
 25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60
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 atagctagta aactccccct gt 142
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 35 <213> Human

 <400> 67
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 40 aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcatcatag atagaataag ctgactaaga ctacttagcc 180
 ccacatttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
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 <400> 68
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 10 tagaagtcac tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc ctgaccaca 120
 tttgaattc taaactgtct ctgggtgggt gtgggtgcc ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gtgtctatg agagagatga cagttgcctg gattatggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgt ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

 <210> 70
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 45 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420
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 25 g 481

<210> 71
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 15 ngacgcgccg tacaggntna attatggan cttacatggn aaaggggcan ctcaatgtcc 120

 cacag 125

 20 <210> 72
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 atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120
 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 5 <212> DNA
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300
 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

<210> 74
 45 <211> 299
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<213> Human

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<222> (31)..(32)

<223> n is a, c, g, or t

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10 <221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

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25

<210> 75

<211> 155

<212> DNA

<213> Human

30

<400> 75

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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

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tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76

40 <211> 367

<212> DNA

<213> Human

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 ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtga gtgatatac 120

 cgccatgaaa ttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180
 45 tatcggtagc aggaatggat gttcgatttc gtagaatagc cctgagagac ggcaataact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccgtaa atagccgta aatgtttta cccattcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtgggtgtg atgccctgtc tttctcctc 300
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30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaacag 180
 taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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15 aggaaggaag gaagg 135

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aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag 180
35 agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccacagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300

40 taaaacttgc ttgaacccc ctggcatagg ctgagttcc ctgact 346

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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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20 atgtaacagt gtggggttc a 201

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tctttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagtaa 240

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gtcgagtccc tcttctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttttctaag cgtagcgcgt ctactccaat gtttcgtta atccagcccg aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

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 acagccaaac cgggtccgcc aaggcctccg tcgtttata atatattccg ttacgtata 180
 aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240
 15 gttctattcc tttagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300
 gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaatt cgaagttat 360
 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420
 tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccatt ctctctatct 480
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 aattaaggna aggnntaaaa aatttaacca anggggggtt taaagggnnt tttttttta 180

 aaaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
 45 cttaaccccc gggtttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

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332

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cgggtggaac tattaaaaca taagttaat cggattttaa aattttaaaa tcaaaaaaaaa 120

15 taaaatata gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

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 40 atgggnaant ttnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnnggntt 180
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 aaancnttt naaanacngn nanaatttn ccnnncggg gagngngga nntttttt 300
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 ntnnancnctc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
 30 ttttctctta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgcn 240

 canngtctnt gacgntgtga tgcatacgtt tgggcagagn gancaatang tgngcatatg 300
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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

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atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

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 30 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggt 180
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